

# American Journal of Potato Research

## Subject Index for Volume 77

- Agriculture
  - changes in, 338-342
- Agronomic traits of potatoes, 211-218
- Alternaria solani*, 80, 86, 163
- Anastomosis groups, 219-224
- Aphid
  - green peach, 275-278
  - vector behavior analysis, 71-75
  - see also *Myzus persicae*
- Aroma
  - of boiled potatoes, 111-117
- Bacterial ring rot, 242
- Blackleg, 191-199
- Biological control
  - of dry rot, 29-39
  - of *Rhizoctonia solani*, 219-224
- Botanical seeds
  - germination of, 201-202
- Breakage
  - incidence of, in canned potatoes, 319-324
- Bruises, 143-148
- Chip color, 279-287
- Classification systems
  - for potato defects, 143-148
- Colletotrichum coccodes*, 289-294
- Colorado potato beetle, see *Leptinotarsa decemlineata*
- Common scab
  - resistance to, 242
- Core collection, 183-190
- Corky ringspot disease, 23-27, 164, 363, 364
- Damage
  - from impact, 143-148
- Database
  - for potato breeding, 95-101
  - genbank, 353-361
- Direct tissue blotting assay (DTBA), 1, 2, 4-6, 8, 9
- Dormancy duration, 103-109
- Dry rot, 29-39
  - Early blight, 242
  - Enterobacter cloacae*, 29, 32-34, 36, 38
  - Enzyme-linked immunosorbant assay (ELISA), 1, 2, 5, 8, 363-367
  - Erwinia*
    - carotovora*, 191-199
    - carotovora* ssp. *atroseptica*, 151
    - resistance to, 149-157
- Flavor
  - of boiled potatoes, 111-117
- Fungicides
  - application timing, 233-240
  - asoxystrobin, 219, 221-223
  - dimethomorph, 233-240
  - fluazanim, 219, 221-223, 233-240
  - mancozeb, 233-240
  - metalaxyl, 233-240
  - pencycuron, 219, 221-223
  - phosphonic acid, 233-240
  - tolclofos-methyl, 219, 221-223
- Fusarium*
  - dry rot, 164, 242
  - sambucinum*, 29, 35, 38
  - wilt, 242
- Genetic resources
  - of potatoes, 353-361
- Germplasm
  - collecting, 261-270
  - potato, 353-361
- Gibberella pulicaris*, 29, 30, 32, 34, 36, 38, 39
- Globodera*
  - pallida*, 207-209
  - rostochiensis*, 207-209
- Glucose phosphate isomerase genotypes, 311-318
- Glycoalkaloids, 167-176, 295-302
- Hybridization, 211-218
- Hydrogen peroxide plus (HPP)
  - to inhibit sprouting, 63-65
- Insect resistance, 167-176

## Irradiation

effects on starch, 245-249

## Irrigation

supplemental, 11-21

*Leptinotarsa decemlineata*, 167-176

Metalaxyl resistance, 311-318

Microtubers, 103-109

Moisture deficit, 47-55

## Mulch

straw, 225-232

*Myzus persicae*, 2, 71-75, 275-278

*Nectria haematococca*, 29-39

## Nematodes,

potato cyst, 207-209

*Paratrichodorus* spp., 363, 364

stubby root, 23-25

*Trichodorus* spp., 363

Nitrogen fertilization, 11-21

## PAA business

abstracts of papers presented at 83<sup>rd</sup> annual meeting, 391-424

## minutes

84<sup>th</sup> annual business meeting, 374, 375

executive committee meeting, 369-373

new executive committee meeting, 389, 390

## reports

administrative assistant's, 374, 375

business editor's, 375

editor-in-chief's, 376

endowment fund committee's, 379

graduate student awards committee's, 378, 379

honorary life membership committee's, 379

local arrangement committee's, 380, 381

membership committee's, 379, 380

outstanding paper selection committee's, 378

PAA finance committee's, 376, 377

PAA vision 2000 committee's, 379

secretary's, 376

site selection committee's, 377, 378

technical editor's, 375

treasurer's, 375, 376

web site advisory committee's, 380

## section reports

breeding and genetics, 381-383

extension, 384, 385

pathology, 384-386

physiology, 386

production and management, 386-388

seed certification, 383, 384

utilization and marketing, 388

## Phosphorus

stress reducer, 179-181

## Physical properties

of potatoes, 319-324

*Phytophthora erythroseptica*, 233-240

*Phytophthora infestans*, 81, 86, 164

metalaxyl resistance, 311-318

resistance to, 295-302

## Pink rot

fungicidal control of, 233-240

## Polymerase chain reaction

to detect *Verticillium* species, 271-274

Potato breeding database, 95-100

## Potato cultivars

Abnaki, 90, 93

AC Stampede Russet, 241-244

Ajax, 245-259

Atlantic, 57-60, 365, 366

Bintje, 25

Butte, 83

Bzura, 25

Century Russet, 77, 161-165

Cisa, 25

Dark Red Norland, 25

Desiree, 63-65, 192, 194

Diamant, 245-259

Kennebec, 103-109, 303, 305

Monona, 280, 281

Niska, 280, 281, 286

Novachip, 280, 281

Norwis 280, 281, 286

Ontario, 364, 366

Ranger Russet, 25, 242

Reddale, 90, 93, 303, 305

Red LaSoda, 364-366

Russet Burbank, 1, 2, 4, 8, 11-21, 25, 26, 47-55, 78-81, 84-87, 103-109, 162-165, 179-181, 242

- Russet Legend, 77-81  
 Russet Norkotah, 25, 78-81, 84-87, 162-164  
 Russette, 90, 93  
 Sebago, 365, 366  
 Serrana, 25  
 Shepody, 11-21, 72, 103-109, 242  
 Snowden, 280, 281, 283  
 Superior, 90, 93, 289-294  
 Umatilla Russet, 83-87  
 Van Gogh, 149-157  
 White Rose, 25  
 Potato cultivars (seedlings)  
   A74212-1E, see Century Russet  
   A77268-4, 83  
   A77715-6, 25, 26  
   A8259-3, 25  
   A8259-5, 25, 26  
   A89875-5, 25, 26  
   AO82611-7, see Umatilla Russet  
   B0169-56, 90, 93  
   B0178-35, 90, 93  
   COO83008-1, see Russet Legend  
   NZA8904-2, 25, 26  
   WNC672-2, 77  
 Potato early dying, 89-94, 289-294  
 Potato leafroll virus, 1-9, 81, 86, 71, 74, 75, 149-157, 275-278  
 Potato production  
   environmental and social perspectives, 342-346  
   farmer's perspective, 347-350  
   research needs, 334-337  
 Potato virus Y, 71-74, 75, 80, 86, 149-157, 208, 275-278  
*Pseudomas fluorescens*, 29, 32-34, 36, 38  
  
 RAPD analysis, 275-278  
 Reducing sugars, 279-286  
 Respiration, 279-287  
 Reverse transcription polymerase chain reaction, 363-367  
*Rhizoctonia solani*, 219-224  
 Rishitin, 303-310  
  
 Salinity stress, 179-181  
 Seedborne disease, 325-331  
 Sensory evaluation  
   of boiled potato, 111-117  
 Soft rot, 191-199  
  
 Soil erosion, 225-232  
*Solanum*  
   *acuale*, 201, 202, 356, 357  
   *agrimoniifolium*, 261, 266, 267  
   *berthaultii*, 356  
   *boliviense*, 44  
   *brachycarpum*, 261, 264, 266  
   *brevidens*, 149-157  
   *bukasovii*, 41, 44, 356  
   *canasense*, 41, 44  
   *chacoense*, 41, 43, 44, 167-176, 211, 212, 356  
   *clarum*, 261, 263  
   *commersonii*, 44, 356  
   *demissum*, 295, 296, 300, 301, 356  
   *fenderti*, 261, 264-266, 356  
   *goniocalyx*, 184  
   *gourlayi*, 211, 212, 356  
   *guerreroense*, 261, 264-266  
   *hintonii*, 261, 263  
   *hjertingii* var. *physaloides*, 261, 263, 266  
   *hongasii*, 261, 264-266  
   *infundibuliforme*, 356  
   *iopetalum*, 261, 264-266, 295, 296, 300, 301  
   *jamesii*, 356, 360  
   *kurtzianum*, 44, 356  
   *leptophyes*, 356  
   *leptosepalum*, 261, 263, 265-267  
   *lesteri*, 261, 263  
   *macropilosum*, 261, 263, 265, 267  
   *megistacrobium*, 356  
   *microdontum*, 43, 356  
   *multidissectum*, 41, 44  
   *okadae*, 44  
   *oplocense*, 356  
   *oxycarpum*, 261, 266, 267  
   *papita*, 261, 264-266  
   *phureja*, 41, 44, 184  
   *polytrichon*, 275-278  
   *raphanifolium*, 43, 356  
   sect. *Petota* 261-270, 354  
   *sparsipilum*, 43, 356  
   *spegazinii*, 211, 212, 356  
   *stenophylidium*, 261, 263  
   *stenotomum*, 44, 184  
   *stoloniferum*, 261, 264-266, 275-278, 356

- tarijense*, 356
- tuberosum* spp. *andigena*, 43, 44, 183-190, 207-209
- vernei*, 43
- x *edinense*, 261, 263, 264, 266
- x *microcanum*, 261, 263
- x *sambucinum*, 261, 263, 264
- yungasense*, 44
- Sprouting, 63-65, 103-109
  - inhibition of, 279-287
- Starch, potato
  - properties of, 245-259, 319-324
- Storage, 63-65, 203
  - effects on potato starch, 245-259
  - long term, 279-287
- Sugar-end defect, 47-55
- Thermoluminescence
  - for identification of irradiated tubers, 245-259
- Thiabendazole (TBZ), 29, 34-36, 38
- Tissue blot, 363, 365, 366
- Tobacco rattle virus (TRV), 23, 25, 363-367
- Tuberization
  - invertase activity, 57-60
- Verticillium*
  - albo-atrum*, 89-94, 271-274, 289-294
  - dahliae*, 89-94, 271-274, 289-294, 325-331
  - tricorpus*, 271-274
- Verticillium wilt, 81, 86, 163, 242
  - detection methods, 271-274
- Wounds
  - of potato 303-310
- Yield
  - effect of irrigation on, 11-21

# American Journal of Potato Research

## Author Index for Volume 77

- ABOU-ARAB, A.A. see AL-KAHTANI, H.A.
- ABU-TARBOUSH, H.M. see AL-KAHTANI, H.A.
- ACUNIA, I., B. JACOBSEN, G. STROBEL, and D. CORSINI. The use of Thaxtomin A to identify common scab resistance in potato and TA-glucose conjugation as a mechanism of resistance, 391 (abst).
- ADAMS, M. see PLATT, H.W.
- AFEK, U., J. ORENSTEIN, and E. NURIEL. Using HPP (hydrogen peroxide plus) to inhibit potato sprouting during storage, 63.
- AFEK, U., J. ORENSTEIN, and E. NURIEL. Using the Tabor Atomizer System to maintain weight and firmness in stored potato tubers, 203.
- AGUILAR, I. see SARQUIS, J.L.
- AL-KAHTANI, H.A., H.M. ABU-TARBOUSH, A.A. ABOU-ARAB, A.S. BAIABER, M.A. AMHMED, and M.A. EL-MOJADDIDI. Irradiation and storage effects on some properties of potato starch and use of thermoluminescence for identification of irradiated tubers, 245.
- AMHMED, M.A. see AL-KAHTANI, H.A.
- ANDRESEN, J.A. see BAKER, K.M.
- ARAJI, A.A. and S. LOVE. The benefits of investment in the Northwest potato breeding program, 391 (abst).
- ARCE-JOHNSON, P. see SERRANO, C.
- BAER, D. E. MITZELL, J. PASCHE, N.C. GUDMESTAD, D. MILLS, and B. RUSSELL. Semi-quantitative detection of *Clavibacter michiganensis* subsp. *sepedonicus* using a DNA hybridization-based microtiter plate assay after PCR, 391 (abst).
- BAIABER, A.S. see AL-KAHTANI, H.A.
- BAJEMA, R. see BARITELLE, A.
- BAKER, K.M., W.W. KIRK, and J.A. ANDRESEN. Microclimate dependent modeling of regional late blight risk, 392, (abst).
- BAKER, K. see KIRK, W.W.
- BAMBERG, J.B. Germination of gibberellin sensitivity *Solanum* (potato) botanical seeds soaked in GA<sub>3</sub> and re-dried, 201.
- BAMBERG, J.B., S. KIRU, and A.H. DEL RIO. RAPD comparison of reputed duplicate populations in the CIR and US potato genebanks, 392 (abst).
- BAMBERG, J.B., C. SINGSIT, A.H. DEL RIO, and E.B. RAD-CLIFFE. RAPD analysis of genetic diversity in *Solanum* populations to predict need for fine screening, 275.
- BAMBERG, J.B. see HUAMAN, Z.
- BARITELLE, A., G. HYDE, R. THORNTON, and R. BAJEMA. A classification system for impact-related defects in potato tubers, 143.
- BARITELLE, A.L. see HYDE, G.M.
- BARRALL, G.A. see BERTRAM, M.C.
- BARTHAKUR, N.N. see KALIFA, A.
- BATEMAN, M. see NOLTE, P.
- BELANGER, G., J.R. WALSH, J.E. RICHARDS, P.H. MILBURN, and N. ZIADI. Yield response of two potato cultivars to supplemental irrigation and N fertilization in New Brunswick, 11.
- BERTRAM, M.C., P. NOLTE, and G.A. BARRALL. Using nondestructive evaluation (NDE) techniques to detect potato tuber defects and dry matter content, 392 (abst).
- BERTRAM, M. see NOLTE, P.
- BISOGNIN, D. and D. DOUCHES. Genetic diversity in diploid and tetraploid potato late blight resistant germplasm, 393 (abst).
- BLENKINSOP, R.W. see COPP, L.J.
- BOHL, W.H., and S.L. LOVE. Observations from potato seed piece bruising studies in Idaho, 393 (abst).
- BOITEAU, G., L.M. MOORE, and D. WATTIE. Comparative analysis of aphid vector behavior in response to potato plants grown from field tubers, minitubers or plantlets, 71.
- BOTHAST, R.J. see SCHISLER, D.A.
- BRANDT, T.L., G.E. KLEINKOPF, and M.J. FRAZIER. Storage characteristics of six potato cultivars, 393 (abst).
- BRANDT, T.L. see FRAZIER, M.J.
- BRODIE, B.B. Lack of H1 gene expression in Bt transgenic potatoes, 394 (abst).
- BRODIE, B.B., M. SCURRAH, and R.L. PLAISTED. Release of germplasm resistant to multiple races of potato cyst nematodes, 207.
- BROOK, R. see NORIKANE, J.H.
- BROWN, C.R., H. MOJTAHEDI, G.S. SANTO, P. HAMM, J.J. PAVEK, D. CORSINI, S. LOVE, J.M. CROSSLIN, and P.E.

- THOMAS. Potato germplasm resistant to corky ringspot disease, 23.
- BROWN, C.R., D. CORSINI, and R. NOVY. Breeding for PVY immunity: Old genes, new friends, 394 (abst).
- BROWN, C. see CULLEY, D.
- BROWN, C. see GUNDERSON, B.
- BROWN, S.E., D.L. KNUDSON, and C.A. ISHIMARU. Genomic analysis of the ring rot bacterium, 394 (abst).
- BURNEY, J.R. see EDWARDS, L.M.
- BURNS, M. see COFFIN, R.
- CABALLERO, J.L. see LOZOYA-SALDAÑA, H.
- CABELLO, R. see UPADHYA, M.D.
- CAMADRO, E.L. see SANTINI, M.
- CANEDO, V. see LAGNAOUI, A.
- CARLING, D.E. see VIRGEN-CALLEROS, G.
- CARRASCO, M. see ROSEN, C.
- CARROLL, R.B. see SEDEGUI, M.
- CHANG, D-C. S-Y. KIM, Y-I. HAHM, and K-Y. SHIN. Hydroponic culture system for the production of seed tubers without soil, 394 (abst).
- CHANG, D-C. S-Y. KIM, and U-B. LEE. Solution concentration effects on growth and mineral uptake of hydroponically grown potatoes, 395 (abst).
- CHARLTON, B.A. see MOSLEY, A.R.
- CHOI, J.K. see LIM, H-T.
- CHRIST, B.J. see COSTANZO, S.
- CHRIST, B.J. see HAYNES, K.G.
- CHRIST, B.J. see SICA, C.
- CHRIST, B.J. see VALLURU, R.
- CHRIST, B.J. see ZHANG, R.
- CISNEROS, F. see MUJICA, N.
- CLEVIDENCE, B. see LU, W.
- COFFIN, R., R. SINGH, A. DILWORTH, C. ZENG, M. BURNS, W. HOLLIS, S. MOOREHEAD, G. HAWKINS, D. HUESTIS, and M. SINGH. Evaluation of factors involved in the spread of potato leafroll virus in the potato variety Russet Burbank in central PEI, 395 (abst).
- COLEMAN, S.E. see COLEMAN, W.K.
- COLEMAN, W.K., and S.E. COLEMAN. Modification of potato microtuber dormancy during induction and growth *in vitro* or *ex vitro*, 103.
- COOMBS, J., D. DOUCHES, and K. DEAHL. Glycoalkaloid analysis of greenhouse and field potato clones with host plant resistance to Colorado potato beetle, 395 (abst).
- COPP, L.J., R.W. BLENKINSOP, R.Y. YADA, and A.G. MARANGONI. The relationship between respiration and chip color during long-term storage of potato tubers, 279.
- CORIA, N.A. see SARQUIS, J.L.
- CORSINI, D., and R. NOVY. Leafroll net necrosis in cultivars and breeding selections, 396 (abst).
- CORSINI, D. see ACUNIA, I.
- CORSINI, D. see BROWN, C.R.
- CORSINI, D.L. see MOSLEY, A.R.
- CORSINI, D. see NOVY, R.
- CROSSLIN, J.M. see THOMAS, P.E.
- COSTANZO, S., B.J. CHRIST, and K.G. HAYNES. Quantitative late blight resistance in an F<sub>1</sub> diploid *Solanum phureja* X *S. stenotomum* population, 396 (abst).
- CROSSLIN, J.M. see BROWN, C.R.
- CULLEY, D., E. SKRZECZKOWSKA, B. DEAN, and C. BROWN. Progress towards introgression of blackspot bruise resistance from *Solanum hjertingii* into cultivated potato varieties, 397 (abst).
- CULLEY, D., C-P. YANG, B. DEAN, and C. BROWN. Characteristics of the polyphenol oxidase gene family from the low browning *Solanum* species, *S. hjertingii*, 396 (abst).
- DAAYF, F., and H.W. (Bud) PLATT. Changes in metalaxyl resistance among glucose phosphate isomerase genotypes of *Phytophthora infestans* in Canada during 1997 and 1998, 311.
- DAAYF, F. see PLATT, H.W.
- DARSOW, U. see ULRICH, D.
- DAVIES, P.J. see OMER, E.A.
- DAVIS, J.R., O.C. HUISMAN, and A.T. SCHNEIDER. Comparative survival of *Verticillium dahliae* on sixteen rotation crops, 397 (abst).
- DAVIS, J.G. see THOMPSON, A.L.
- DAVOREN, C.W. see WICKS, T.J.
- DEAHL, K.E., and R.W. GOTH. A detached-leaf method to evaluate oospore pathogenicity in potato, 397 (abst).
- DEAHL, K. see COOMBS, J.
- DEAN, B. see CULLEY, D.
- DE JONG, H. see LI, X-Q.
- DE JONG, H. see ZEBARTH, B.J.
- DELGADO, E. Qualitative aspects of potato tubers determined by water availability during growth, 398 (abst).
- DEL RIO, A.H., and J.B. BAMBERG. Impact of genebank's first seed increase on the genetic differentiation of collected wild *Solanum* (potato) species, 398 (abst).



- DEL RIO, A.H. see BAMBERG, J.B.
- DILWORTH, A. see COFFIN, R.
- DONG, F., J.M. MCGRATH, H.L. TEK, G.T. HABERLACH, J.P. HELGESON, and J. JIANG. Development and characterization of *Solanum brevidens* chromosome additions/substitutions in potato, 398 (abst).
- DOETKOTT, C. see SALAS, B.
- DONNELLY, D.J. see KALIFA, A.
- DOUCHES, D. see BISOGNIN, D.
- DOUCHES, D. see COOMBS, J.
- DOUCHES, D.S. see HAYNES, K.G.
- DOUCHES, D.S. see LAGNAOUI, A.
- DOUCHES, D.S. see LEARY, B.
- DOUGLASS, L.K. see SEABROOK, J.E.A.
- EDWARDS, L.M., A. VOLK, and J.R. BURNEY. Mulching potatoes: Aspects of mulch management systems and soil erosion, 225.
- ELDREDGE, E.P. see SOWOKINOS, J.R.
- EL-MOJADDIDI, M.A. see AL-KAHTANI, H.A.
- ERAZZU, L.E. see SANTINI, M.
- EWING, E.E. see OMER, E.A.
- FISHER, D.G. Evidence of horizontal resistance in *Solanum tuberosum* to Colorado potato beetle (*Leptinotarsa decemlineata* Say), 398 (abst).
- FRAZIER, M.J. see BRANDT, T.L.
- FRAZIER, M.J., G.E. KLEINKOPF, and T.L. BRANDT. Spearmint oil and peppermint oil used as alternative sprout suppressants, 399 (abst).
- FREEMAN, T.P. see LULAI, E.C.
- FREEMAN, T.P. see RIVERA-VARAS, V.V.
- FRY, W.E. see HAYNES, K.G.
- FUJIMOTO, D.K. see KOZUB, J.G.
- FUJIMOTO, D.K. see LYNCH, D.R.
- GASTELO, M. see LANDEO, J.A.
- GEARY, B., P.B. HAMM, D.A. JOHNSON, S.R. JAMES, and K.A. RYKBOST. Effects of fungicides and location on development of silver scurf, 399 (abst).
- GEBAUER, M. see SERRANO, C.
- GEDDENS, R. see HAMLEN, R.A.
- GENET, J.L. see HAMLEN, R.A.
- GOMEZ, R. see HUAMAN, Z.
- GONZALEZ, A.R. see REID, N.B.
- GOTH, R.W., and K.G. HAYNES. Evaluation of potato clones for severity of verticillium wilt, yield, and specific gravity in Maine, 89.
- GOTH, R.W. see DEAHL, K.E.
- GOTH, R.W. see HAYNES, K.G.
- GRUNWALD, N.I. see RUBIO-COVARRUBIAS, O.
- GUDMESTAD, N.C. see HOLM, A.L.
- GUDMESTAD, N.C. see SALAS, B.
- GUDMESTAD, N.C. see RIVERA-VARAS, V.V.
- GUENTHNER, J.F. see JENSEN, H.M.
- GUILHEN, R.B. see SOUZA-DIAS, J.A. CARAM DE
- GUDMESTAD, N.C. see BAER, D.
- GUNDERSON, B., D. INGLIS, L. PORTER, J. MILLER, D. JOHNSON, and C. BROWN. Comprehensive laboratory and field assessment of resistance to *Phytophthora infestans* derived from *Solanum hougassi* in a segregating breeding population, 399 (abst).
- GUPTA, S., J. SOWOKINOS, and I. SHEA. Isolation and characterization of cold sweetening resistant isozymes of UGP-GLC pyrophosphorylase (UGPase) from potato (cv Snowden), 400 (abst).
- GUTIERREZ, M. see SERRANO, C.
- HABERLACH, G.T. see DONG, F.
- HAFEZ, S.L., and P. SUNDARARAJ. Application and placement of nematicides in the management of stubby root nematode and corky ringspot disease of potato, 400 (abst).
- HAHM, Y.-I. see CHANG, D.-C.
- HAHM, Y., K. KIM, H. SEO, and H. JUNG. Characterization of tobacco mosaic tobamovirus isolated from potato in Korea, 400 (abst).
- HALE, A.L. J.C. MILLER JR., J.P. MILLER, and R.D. LINBERGER. The PAA web site—Goodbye Texas, hello Maine, 400 (abst).
- HALL, B.H. see WICKS, T.J.
- HAMLEN, R.A., J.L. GENET, C. SHEPHERD, and R. GEDDENS. Famoxate®: a new and unique fungicide for use in the management of early and late blight of potato, 401 (abst).
- HAMM, P. see BROWN, C.R.
- HAMM, P.B. see GEARY, B.
- HAMM, P.B. see HANE, D.C.
- HAMM, P.B. see INGHAM, R.E.
- HAMM, P.B. see MILLS, D.

- HAMMERSCHMIDT, R. see LEARY, B.
- HANE, D.C., and P.B. HAMM. Efficacy of Vapam rates on soil-borne fungi and yield of four potato cultivars, 401 (abst).
- HANE, D.C. see MOSLEY, A.R.
- HANNEMAN JR., R.E. see KUHL, J.C.
- HAVEY, M.J. see KUHL, J.C.
- HAWKINS, G. see COFFIN, R.
- HAYES, R.J., and C.A. THILL. Early generation selection for cold chipping in diverse potato progenies, 401 (abst).
- HAYNES, K.G. Two cycles of recurrent selection for specific gravity in diploid potatoes: effect on inheritance of yield and specific gravity, 402 (abst).
- HAYNES, K.G., D.S. DOUCHES, C.A. THILL, G. SECOR, W.E. FRY, B.J. CHRIST, and R.W. GOTH. Foliar resistance to late blight in potato clones evaluated in national trials in 1999, 402 (abst).
- HAYNES, K.G. see COSTANZO, S.
- HAYNES, K.G. see GOTH, R.W.
- HAYNES, K. see LU, W.
- HAYNES, K.G. see VALLURU, R.
- HAYNES, K.G. see ZHANG, R.
- HELGESON, J.P. see DONG, F.
- HERNÁNDEZ, A. see LOZOYA-SALDAÑA, H.
- HIEBERT, E. see PEREZ, E.E.
- HINKLE, M.K. see PLATT, H.W.
- HOBERG, E. see ULRICH, D.
- HOEKSTRA, R. see HUAMAN, Z.
- HOLLEY, J. see LYNCH, D.R.
- HOLLIS, W. see COFFIN, R.
- HOLM, A.L., V.V. RIVERA, G.A. SECOR, and N.C. GUDMESTAD. Sensitivity to potato early blight, *Alternaria* sp., to protectant fungicides, 402 (abst).
- HOLM, D.G. see MOSLEY, A.R.
- HOLUIGUE, L. see SERRANO, C.
- HOOVER, R., P. KARNEZOS, and W. PINKSTON. Response of potato to Crop-Set™ bio-stimulant, 403 (abst).
- HOSAKA, K., H. MATSUNAGA, and K. SENDA. Evaluation of several wild tuber-bearing *Solanum* species for scab resistance, 41.
- HUAMAN, Z., R. ORTIZ, and R. GOMEZ. Selecting a *Solanum tuberosum* subsp. *andigenas* core collection using morphological, geographical, disease, and pest descriptors, 183.
- HUAMAN, Z., R. HOEKSTRA, and J.B. BAMBERG. The Inter-genebank potato database and the dimensions of available wild potato germplasm, 353.
- HUESTIS, D. see COFFIN, R.
- HUFFMAN, W., C. THORNTON, and R.E. THORNTON. Effects of irrigation and nitrogen management on five potato cultivars, 403 (abst).
- HUISMAN, O.C. see DAVIS, J.R.
- HYDE, G.M., and A.L. BARITELLE. Tuber conditioning to minimize impact bruising, 403 (abst).
- HYDE, G. see BARITELLE, A.
- INGHAM, R.E., and P.B. HAMM. Water-run and Shankled applications of metham sodium for control of tuber infection by *Meloidogyne chitwoodi* and corky ringspot in the Columbia Basin of Oregon, 403 (abst).
- INGLIS, D.A. see PARTIPILO, H.M.
- INGLIS, D. see GUNDERSON, B.
- ISHIMARU, C.A. see BROWN, S.E.
- JACOBSEN, B. see ACUNIA, I.
- JAKUCZUN, H. see ZIMNOCH-GUZOWSKA, E.
- JAMES, S.R. see GEARY, B.
- JAMES, S.R. see MOSLEY, A.R.
- JANSKY, S., and D. ROUSE. Early generation selection for *Verticillium* wilt resistance, 404 (abst).
- JENSEN, H.M., and J.F. GUENTHNER. Economics of net necrosis in the frozen potato processing industry, 404 (abst).
- JENSEN, B.L. see MALKAWI, A.A.
- JIANG, J. see DONG, F.
- JOHNSON, D.A. see GEARY, B.
- JOHNSON, D. see GUNDERSON, B.
- JOHNSON, D.A. see MILLS, D.
- JOHNSON, D.A. see OMER, M.A.
- JONES, R.W. Analysis of prosystemin in potato, 404 (abst).
- JORDANA, X. see SERRANO, C.
- JUNG, H. see HAHM, Y.
- KALAZICH, J. see SERRANO, C.
- KALIFA, A., N.N. BARTHAKUR, and D.J. DONNELLY. Phosphorus reduces salinity stress in micropropagated potato, 179.
- KARNEZOS, P. see HOOVER, R.
- KSEVHUK, L.M. see KOZUB, J.G.
- KAWCHUK, L.M. see LYNCH, D.R.
- KAZARIAN, D.E., S.J. NISSEN, and A.L. THOMPSON. Broadleaf weed control in potatoes with sulfentrazone and flumioxazin, 404 (abst).



- KEFI, S., A.D. PAVLISTA, M.M. MEAGHER, and P.E. READ. Invertase activity as affected by cytokinin-like compounds during potato tuberization *in vitro*, 57.
- KELLING, K.A., and P.E. SPETH. Effect of cation balance on potato yield, quality and tissue concentrations, 405 (abst).
- KENNEDY, G.G. see YENCHO, G.C.
- KHU, D., and H-T. LIM. Establishment of selection system to common scab resistance potato clones using *in vitro* thaxtomin-a and tissue culture system, 405 (abst).
- KHU, D. see LIM, H-T.
- KIANIAN, P.M.A. see ROJAS-CIFUENTES, G.A.
- KIM, S-Y. see CHANG, D-C.
- KIM, K. see AHM, Y.
- KIRK, W.W., K. BAKER, B.A. NIEMIRA, and J.M. STEIN. Epidemiology and chemical control of *Phytophthora infestans* in potato canopies following point-source inoculation, 405 (abst).
- KIRK, W.W. see BAKER, K.M.
- KIRK, W.W. see NORIKANE, J.H.
- KIRU, S. see BAMBERG, J.B.
- KLEINKOPF, G.E. see BRANDT, T.L.
- KLEINKOPF, G.E. see FRAZIER, M.J.
- KLEINKOPF, G.E. see OBERG, N.A.
- KLEINKOPF, G.E. see WOODILL, L.K.
- KLEINKOPF, G. see SCHISLER, D.A.
- KNUDSON, D.L. see BROWN, S.E.
- KOWALSKI, S.P. see YENCHO, G.C.
- KOZUB, G.C. see KOZUB, J.G.
- KOZUB, G.C. see LYNCH, D.R.
- KOZUB, J.G., D.R. LYNCH, G.C. KOZUB, L.M. KAWCHUK, and D.K. FUJIMOTO. A relational database system for potato breeding programs, 95.
- KUHL, J.C., R.E. HANNEMAN JR., and M.J. HAVEY. Genetic and molecular characterization of late blight resistance in a 2X(1EBN) Mexican species, *Solanum pinnatisectum*, 406 (abst).
- LAGNAOUI, A., V. CANEDO, and D.S. DOUCHES. Evaluation of Bt-CRYV transgenic potatoes on two species of potato tuber moth, *Phthorimaea operculella* (Zeller) and *Symmetrischema tangolias* (Gyen) in Peru, 406 (abst).
- LAGNAOUI, A. see MUJICA, N.
- LANDEO, J.A., M. GASTELO, E. RONCAL, and A. MENDOZA. Phenotypic stability for horizontal resistance to potato late blight in population B, 406 (abst).
- LANGILLE, A.R. see MALKAWI, A.A.
- LEARY, B., D.S. DOUCHES, and R. HAMMERSCHMIDT. Expression of the grapevine stilbene synthase gene in potato to build resistance to late blight, 407 (abst).
- LEBECKA, R. see ROKKA, V-M.
- LI, X-Q. Source of DNA polymorphism detected by SSR-PCR in potato, 407 (abst).
- LI, X-Q., G.C.C. TAI, and H. DE JONG. Association of molecular markers in parents with the performance of processing quality traits in their progenies, 407 (abst).
- LIM, C.K. see LIM, H-T.
- LIM, H-T., and C-S. YOON. Effective treatment of plant growth regulators on the production of potato mini-tubers based on hydroponics system, 408 (abst).
- LIM, H-T., and D. KHU. Selection of resistant potato clones to hollow heart and internal brown spot under physiologically disordered field conditions, 408 (abst).
- LIM, H-T., Y.S. SONG, D.M. KHU, C.K. LIM, and J.K. CHOI. Evaluation of somatic hybrids derived from *Solanum etuberosum* and *S. tuberosum* based on morphological characters and disease resistance, 408 (abst).
- LIM, H-T. see KHU, D.
- LINEBERGER, R.D. see HALE, A.L.
- LOVE, S. see ARAJI, A.A.
- LOVE, S.L. see BOHL, W.H.
- LOVE, S. see BROWN, C.R.
- LOVE, S.L. see MOSLEY, A.R.
- LOVE, S. see NOVY, R.
- LOZOYA-SALDAÑA, H., and J.L. CABALLERO. Tuber blight by *Phytophthora infestans* in potato genotypes, 408 (abst).
- LOZOYA-SALDAÑA, H., and A. HERNÁNDEZ. Genotype environment and standard international field trial (G x E and SIFT) in Toluca, Mexico, 409 (abst).
- LU, W., K. HAYNES, E. WILEY, and B. CLEVIDENCE. Colorimetric and carotenoid analysis in diploid potatoes, (abst) 409.
- LUDY, R.L., and M.L. POWELSON. Early season foliar fungicide applications delay progression of late blight of potato, 409 (abst).
- LULAI, E.C., and T.P. FREEMAN. Inhibition of wound induced suberization in potato tuber (*Solanum tuberosum* L.), 410 (abst).
- LULAI, E.C. The effect of wound severity, type of tissue, and use of the tuber disk model on arachnidonic acid-induced rishitin accumulation in potato tuber, 303.
- LYNCH, D.R., G.C. KOZUB, and L.M. KAWCHUK. The relationship between yield, mainstem number and tuber number, 410 (abst).

- LYNCH, D.R., J.C. MILLER JR., L.M. KAWCHUK, C.A. SCHAUPMEYER, J. HOLLEY, J. PANFORD, D.K. FUJIMOTO, D. WATERER, J. WAHAB, B. REX, and M.S. GOETTEL. AC Stampede Russet: A high-yielding oblong russet cultivar for the french fry and fresh market industries, 241.
- LYNCH, D.R. see KOZUB, J.G.
- MACDONALD, E. see PLATT, H.W.
- MACKAY, G.R. see PLATT, H.W.
- MACRAE, I.V. see SURANYI, R.A.
- MAHUKU, G. see PLATT, H.W.
- MALKAWI, A.A., B.L. JENSEN, and A.R. LANGILLE. Isolation of several plant hormones from Katahdin potato plant tissues and the influence of induction on their levels, 410 (abst).
- MARANGONI, A.G. see COPP, L.J.
- MARCELLAN, O.N. see SANTINI, M.
- MARKS, B.P. see REID, N.B.
- MATSUNAGA, H. see HOSAKA, K.
- MCGRATH, J.M. see DONG, F.
- MCSORLEY, R. see PEREZ, E.E.
- MEAGHER, M.M. see KEFI, S.
- MENDOZA, A. see LANDEO, J.A.
- MEREDITH, P. A century of tuber density technology, but not much science, 410 (abst).
- MIKITZEL, L., and D. WATTIE. Greensprouting seed tubers to improve early yield, 411 (abst).
- MILBURN, P.H. see BELANGER, G.
- MILBURN, P. see ZEBARTH, B.J.
- MILLER, J., T. MILLER, N. OLSEN, and P. NOLTE. Frequency of late blight fungicide use in southern Idaho during 1998 and 1999, 411 (abst).
- MILLER JR., J.C. see LYNCH, D.R.
- MILLER, J.C. see HALE, A.L.
- MILLER, J.P. see HALE, A.L.
- MILLER, J. see GUNDERSON, B.
- MILLER, T. see MILLER, J.
- MILLS, D., and B.W. RUSSELL. Use of species-specific primers for concomitant verifiable detection of *Clavibacter michiganensis* subsp. *sepedonicus* and elimination of false negative reactions by multiplex PCR, 411 (abst).
- MILLS, D., J.M. SCHRUNK, B.W. RUSSELL, P.B. HAMM, and D.A. JOHNSON. PCR-based mitochondrial haplotyping of *Phytophthora infestans* populations in Oregon and Washington, 412 (abst).
- MILLS, D. see BAER, D.
- MIRANDA FO., H.S. see SOUZA-DIAS, J.A. CARAM DE
- MITZELL, E. see BAER, D.
- MOORE, L.M. see BOITEAU, G.
- MOOREHEAD, S. see COFFIN, R.
- MOSLEY, A.R. see WHITWORTH, J.L.
- MOJTAHEDI, H. see BROWN, C.R.
- MOREHART, A.L. see SEDEGUI, M.
- MORENO, M. see SERRANO, C.
- MOSLEY, A.R., S.R. JAMES, C.C. SHOCK, D.C. HANE, K.A. RYKBOST, B.A. CHARLTON, D.G. HOLM, S.L. LOVE, D.L. CORSINI, J.J. PAVEK, and R.E. THORNTON. Russet Legend: A full season long russet for processing and fresh market use, 77.
- MOSLEY, A.R., S.R. JAMES, D.C. HANE, K.A. RYKBOST, C.C. SHOCK, B.A. CHARLTON, J.J. PAVEK, S.L. LOVE, D.L. CORSINI, and R.E. THORNTON. Umatilla Russet: A full season long russet for processing and fresh market use, 83.
- MOSLEY, A.R., S.R. JAMES, K.A. RYKBOST, D.C. HANE, C.E. STANGER, C.C. SHOCK, J.J. PAVEK, D.L. CORSINI, J.C. MILLER, S.L. LOVE, R.E. THORNTON, D.G. HOLM, and R.E. VOSS. Century Russet: A high-yielding fresh market cultivar with verticillium resistance, 161.
- MUJICA, N., F. CISNEROS, and A. LAGNAOUI. An IPM strategy to manage the leafminer fly, *Liriomyza huidobrensis* (Blanchard) on potatoes in the Canete Valley of Peru, 412 (abst).
- NEUGEBAUER, W. see ULRICH, D.
- NEWBERRY, G.D., and R.E. THORNTON. The effect of cultivar and tuber size on the efficacy of maleic hydrazide for volunteer potato control, 412 (abst).
- NIE, X., and R.P. SINGH. Detection of Multiple potato viruses using an oligo (dT) as a common cDNA primer in multiplex RT-PCR, 412 (abst).
- NIE, X., and R.P. SINGH. A novel usage of random primers for multiplex RT-PCR detection of virus and viroid in aphids, leaves and tubers, 413 (abst).
- NIEMIRA, B.A. see KIRK, W.W.
- NISSSEN, S.J. see KAZARIAN, D.E.
- NOLTE, L. see NOLTE, P.
- NOLTE, P., M. BATEMAN, M. BERTRAM, L. NOLTE, and J. RANDALL. Seed decay and performance of cut vs. whole seed, 413 (abst).
- NOLTE, P. see BERTRAM, M.C.

- NOLTE, P. see MILLER, J.
- NORIKANE, J.H., W.W. KIRK, and R. BROOK. An evaluation of the corrosive effects of Purogene, 413 (abst).
- NOVY, R., D. CORSINI, S. LOVE, and J. PAVEK. A90586-11: A high yielding, processing selection with foliar and tuber resistance to late blight, 414 (abst).
- NOVY, R. see BROWN, C.R.
- NOVY, R. see CORSINI, D.
- NOVY, R.G. see ROJAS-CIFUENTES, G.A.
- NURIEL, E. see AFEK, U.
- OBERG, N.A., and G.E. KLEINKOPF. Effect of methyl jasmonate on stored potato quality, 414 (abst).
- OLALDE-PORTUGAL, V. see VIRGEN-CALLEROS, G.
- OLSEN, N. see MILLER, J.
- OLSEN, N. see WOODDELL, L.K.
- OMER, E.A., I. SIMKO, P.J. DAVIES, T.L. SETTER, D. VREUGDENHIL, and E.E. EWING. Mapping polygenes for hormones implicated in the control of tuberization, 414 (abst).
- OMER, M.A., D.A. JOHNSON, and R.C. ROWE. Recovery of *Verticillium dahliae* from North American certified seed potatoes and characterization of strains by vegetative compatibility and aggressiveness, 325.
- ORENSTEIN, J. see AFEK, U.
- ORTIZ, R. see HUAMAN, Z.
- OSTROWSKI, R.C. see SCHISLER, D.A.
- PAGE, J.H. see SCANLON, M.G.
- PANFORD, J. see LYNCH, D.R.
- PAREDES-MELESIO, R. see ROCHA-RODRIGUEZ, R.
- PARTIPILO, H.M., M.L. POWELSON, and D.A. INGLIS. Seed-borne *Phytophthora infestans*: rate of transmission and effect on stand in five potato cultivars, 415 (abst).
- PASCHE, J. see BAER, D.
- PAVEK, J.J. see BROWN, C.R.
- PAVEK, J.J. see MOSLEY, A.R.
- PAVEK, J. see NOVY, R.
- PAVLISTA, A.D. see KEFI, S.
- PEHU, E. see ROKKA, V-M.
- PEREZ, E.E., D.P. WEINGARTNER, E. HIEBERT, and R. MCSORLEY. Tobacco rattle virus detection in potato tubers from northeast Florida by PCR and tissue blotting, 363.
- PIETILA, L. see ROKKA, V-M.
- PINKSTON, W. see HOOVER, R.
- PLAISTED, R.L. see BRODIE, B.B.
- PLATT, H.W., and F. DAAYF. *Phytophthora infestans* populations in Canada during the 1999 growing season, 415 (abst).
- PLATT, H.W., and F. DAAYF. GPI allozyme genotypes and metalaxyl resistance in 1997-1998 Canadian populations of *Phytophthora infestans*, 415 (abst).
- PLATT, H.W. and G. MAHUKU. Detection methods for *Verticillium* species in naturally infested and inoculated soils, 271.
- PLATT, H.W., E.S. PLISSEY, G.R. MACKAY, M. ADAMS, M.K. HINKLE, and E. MACDONALD. SYMPOSIUM: Sustaining potato crop, land and industry health beyond the year 2000: Current issues and future needs, 333.
- PLATT, H.W. see DAAYF, F.
- PLISSEY, E.S. see PLATT, H.W.
- PORTER, G.A., J. SISSON, and E. VAN CINGEL. Potassium source and micro-nutrient effects on yield and quality of Maine-grown processing potatoes, 415 (abst).
- PORTER, L. see GUNDERSON, B.
- POWELSON, M.L. see LUDY, R.L.
- POWELSON, M.L. see PARTIPILO, H.M.
- QUJANO-CARRANZA, J.A. see ROCHA-RODRIGUEZ, R.
- RADCLIFFE, E.B. see BAMBERG, J.B.
- RADCLIFFE, E.B. see SURANYI, R.A.
- RAGSDALE, D.W. see SURANYI, R.A.
- RAMOS, V.J. see SOUZA-DIAS, J.A. CARAM DE
- RANDALL, J. see NOLTE, P.
- READ, P.E. see KEFI, S.
- REED, G.L. see WHITWORTH, J.L.
- REID, N.B., B.P. MARKS, A.R. GONZALEZ, and T.J. SIENBENMORGEN. Effects of physical properties on incidence of breakage in canned white potatoes, 319.
- REX, B. see LYNCH, D.R.
- RICHARDS, J.E. see BELANGER, G.
- RICHARDS, K. see THOMAS, P.E.
- RIVERA, A. see SARQUIS, J.L.
- RIVERA, V.V. see HOLM, A.L.
- RIVERA-PENA, A. *Solanum brachycarpum* (Corr): A wild tuber-bearing species with resistance to late blight (*Phytophthora infestans*), 416 (abst).
- RIVERA-VARAS, V.V., G.A. SECOR, N.C. GUDMESTAD, and T.P. FREEMAN. The impact of *Cephalosporium* spp. on *Helminthosporium solani*, 416 (abst).

- RIVERS PENA, A. see SPOONER, D.M.
- ROCHA-RODRIGUEZ, R., J.A. QUIJANO-CARRANZA and R. PAREDES-MELESIO. MSPECAPA, a simulation model to assess damage in potato, 416 (abst).
- ROJAS-CIFUENTES, G.A., P.M.A. KIANIAN, and R.G. NOVY. Potato RAPD heteroduplexes: their impact on genetic distance estimates and their use in developing codominant sequence tagged site (STS) markers, 416 (abst).
- ROKKA, V.-M., J.P.T. VALKONEN, A. TAURIANEN, L. PIETILA, R. LEBECKA, E. ZIMNOCH-GUZOWSKA, and E. PEHU. Production and characterization of "second generation" somatic hybrids derived from protoplast fusion between interspecific somatohaploid and dihaploid *Solanum tuberosum* L., 149.
- RONCAL, E. see LANDEO, J.A.
- RONIS, D.H.. A proposed model for efficient use of plant biotechnology for potato improvement, 417 (abst).
- ROSEN, C., M. CARRASCO, and M. THORNTON. Russet Burbank and NewLeaf response to timing of nitrogen fertilizer, 417 (abst).
- ROUSE, D. see JANSKY, S
- ROWE, R.C. see OMER, M.A.
- RUBIO-COVARRUBIAS, O., and N.I. GRUNWALD. Relationship between nitrogen fertilization of potato plants and late blight severity, 417 (abst).
- RUBY, C. see TAYLOR, R.J.
- RUSSELL, B. see BAER, D
- RUSSELL, B.W. see MILLS, D.
- RYKBOST, K.A. see GEARY, B.
- RYKBOST, K.A. see MOSLEY, A.R.
- SALAS, B., N.C. GUDMESTAD, G.A. SECOR, R.J. TAYLOR, and C. DOETKOTT. Sensitivity of North American isolates of *Phytophthora erythroseptica* and *Pythium* spp. to mefenoxam (Ridomil Gold EC), 417 (abst).
- SALAS, B., G.A. SECOR, R.J. TAYLOR, and N.C. GUDMESTAD. Evaluation of potato genotypes for resistance to pink rot and leak, 418 (abst).
- SANFORD, L.L. see YENCHO, G.C.
- SANTINI, M., E.L. CAMADRO, O.N. MARCELLAN, and L.E. ERAZZU. Agronomic characteristics of diploid hybrid families derived from crosses between haploids of the common potato and three wild Argentinian tuber-bearing species, 211.
- SANTO, G.S. see BROWN, C.R.
- SARQUIS, J.L., N.A. CORIA, I. AGUILAR, and A. RIVERA. Glycoalkaloid content in *Solanum* species and hybrids from a breeding program for resistance to late blight (*Phytophthora infestans*), 295.
- SCANLON, M.G., J.H. PAGE, and S.R.K. TOEWS. An ultrasound investigation of potato tuber structure, 418 (abst)..
- SCHAUPMEYER, C.A. see LYNCH, D.R.
- SCHISLER, D.A., P.J. SLININGER, G. KLEINKOPF, R.J. BOTHAST, and R.C. OSTROWSKI. Biological control of fusarium dry rot of potato tubers under commercial storage conditions, 29.
- SCHNEIDER, A.T. see DAVIS, J.R.
- SCHRUNK, J.M. see MILLS, D.
- SCURRAH, M. see BRODIE, B.B.
- SEABROOK, J.E.A., and L.K. DOUGLASS. Somatic embryogenesis on 18 cultivars of potato (*Solanum tuberosum*), *S. capsicibaccatum*, *S. polyadenum* and *S. trifidum* in vitro, 418 (abst).
- SECOR, G. see HAYNES, K.G.
- SECOR, G. see HOLM, A.L.
- SECOR, G.A. see RIVERA-VARAS, V.V.
- SECOR, G.A. see SALAS, B.
- SECOR, G.A. see TAYLOR, R.J.
- SEDEGUI, M., R.B. CARROLL, A.L. MOREHART, and D.P. WHITTINGTON. Etiology of potato early dying in Delaware, 289.
- SEO, H. see HAHM, Y.
- SERRANO, C., P. ARCE-JOHNSON, H. TORRES, M. GEBAUER, M. GUTIERREZ, M. MORENO, X. JORDANA, A. VENEGAS, J. KALAZICH, and L. HOLUIGUE. Expression of the chicken lysozyme gene in potato enhances resistance to infection by *Erwinia carotovora* subsp. *atroseptica*, 191.
- SENDA, K. see HOSAKA, K.
- SETTER, T.L. see OMER, E.A.
- SHEA, I. see GUPTA, S.
- SHEPHERD, C. see HAMLEN, R.A.
- SHIN, K-Y. see CHANG, D-C.
- SHOCK, C.C. see SOWOKINOS, J.R.
- SHOCK, C.C. see MOSLEY, A.R.
- SHULER, K. see SPOONER, D.M.
- SICA, C., and B.J. CHRIST. Incidence of powdery scab on fourteen potato cultivars, 419 (abst)..
- SIENBENMORGEN, T.J. see REID, N.B.
- SINGH, R.P., N. XIANZHOU, and M. SINGH. Duplex RT-PCR: reagent concentrations at reverse transcription stage affect the PCR performance, 419 (abst).
- SIECZKA, M.T. see ZIMNOCH-GUZOWSKA, E.
- SIMKO, I. see OMER, E.A.

- SINGH, M. see COFFIN, R.  
 SINGH, M. see SINGH, R.P.  
 SINGH, R. see COFFIN, R.  
 SINGH, R.P. see NIE, X.  
 SINGSIT, C. see BAMBERG, J.B.  
 SISSON, J. see PORTER, G.A.  
 SKRZECZKOWSKA, E. see CULLEY, D.  
 SLININGER, P.J. see SCHISLER, D.A.  
 SONG, Y.S. see LIM, H-T.  
 SOUZA-DIAS, J.A. CARAM DE, V.J. RAMOS, H.S. MIRANDA FO., and R.B. GUILHEN. Near 20 years of PVX absence at Itataré Seed-Potato Experiment Station (São Paulo, Brazil) under continued field plantation of susceptible varieties, 419 (abst).  
 SOWOKINOS, J.R., C.C. SHOCK, T.D. STIEBER, and E.P. ELDREDGE. Compositional and enzymatic changes associated with the sugar-end defect in Russet Burbank potatoes, 47.  
 SOWOKINOS, J. see GUPTA, S.  
 SPETH, P.E. see KELLING, K.A.  
 SPOONER, D.M., A. RIVERS PENA, R.B. VAN DEN BERG, and K. SHULER. Potato germplasm collecting expedition to Mexico in 1997: Taxonomy and new germplasm resources, 261.  
 STEIN, J.M. see KIRK, W.W.  
 STIEBER, T.D. see SOWOKINOS, J.R.  
 STROBEL, G. see ACUNIA, I.  
 SUNDARARAJ, P. see HAFEZ, S.L.  
 SURANYI, R.A., I.V. MACRAE, D.W. RAGSDALE, and E.B. RADCLIFFE. Site-specific management of green peach aphids in seed potatoes, 420 (abst).  
 SWIEZYNSKI, K.M. see ZIMNOCH-GUZOWSKA, E.  
 TAI, G.C.C. see LI, X-Q.  
 TAI, G. see ZEBARTH, B.J.  
 TARN, R. see ZEBARTH, B.J.  
 TAURIANEN, A. see ROKKA, V-M.  
 TAYLOR, R.J., G.A. SECOR, C. RUBY, and G. VOGT. Liberty Russet: a new variety derived from Lemhi Russet via in vitro selection for reduced susceptibility to blackspot bruise, 420 (abst).  
 TAYLOR, R.J. see SALAS, B.  
 TEK, H.L. see DONG, F.  
 THILL, C.A. see HAYES, R.J.  
 THILL, C.A. see HAYNES, K.G.  
 THILL, C.A. see ZLESACK, D.C.  
 THOMAS, P.E., J.M. CROSSLIN, and K. RICHARDS. A new denso-like virus infecting the green peach aphid, *Myzus persicae* Sulzer, 420 (abst).  
 THOMAS, P.E. see BROWN, C.R.  
 THOMPSON, A.L., and J.G. DAVIS. Potato response to boron fertilization, 420 (abst).  
 THOMPSON, A.L. see KAZARIAN, D.E.  
 THORNTON, C. see HUFFMAN, W.  
 THORNTON, M. see ROSEN, C.  
 THORNTON, R.E. Factors influencing potato leaf roll incidence in the Columbia Basin of Washington State, 421 (abst).  
 THORNTON, R. see BARITELLE, A.  
 THORNTON, R.E. see HUFFMAN, W.  
 THORNTON, R.E. see MOSLEY, A.R.  
 THORNTON, R.E. see NEWBERRY, G.D.  
 THORNTON, R.E. see TIMM, G.H.  
 TIEMANN, H. see ULRICH, D.  
 TIMM, G.H., and R.E. THORNTON. Paclobutrazol alone and combined with gibberellic acid or kinetin alters sprout development and minituber formation from aged Russet Burbank potato (*Solanum tuberosum* L.), 421 (abst).  
 TIMM, G.H. and R.E. THORNTON. The yield, grade distribution and vigor of minitubers arising from aged Russet Burbank potato spray treated with paclobutrazol, 421 (abst).  
 TOEWS, S.R.K. see SCANLON, M.G.  
 TORRES, H. see SERRANO, C.  
 ULRICH, D., E. HOBERG, W. NEUGEBAUER, H. TIEMANN, and U. DARSOW. Investigation of the boiled potato flavor by human sensory instrumental methods, 111.  
 UPADHYA, M.D., and R. CABELLO. Stability analysis for berry and seed characteristics in crosses for hybrid TPS production, 422 (abst).  
 UPADHYA, M.D., and R. CABELLO. Yield stability analysis for the selection of parental lines of hybrid true potato seed varieties, 422 (abst).  
 VALKONEN, J.P.T. see ROKKA, V-M.  
 VALLURU, R., B.J. CHRIST, and K.G. HAYNES. Tuber late blight resistance in a diploid hybrid *Solanum phureja* X *S. stenotomum* F<sub>1</sub> population, 422 (abst).  
 VAN CINGEL, E. see PORTER, G.A.  
 VAN DEN BERG, R.B. see SPOONER, D.M.  
 VENEGAS, A. see SERRANO, C.



- VIRGEN-CALLEROS, G., V. OLALDE-PORTUGAL, and D.E. CARLING. Anastomosis groups of *Rhizoctonia solani* on potato in central Mexico and potential for biological and chemical control, 219.
- VOGT, G. see TAYLOR, R.J.
- VOLK, A. see EDWARDS, L.M.
- VREUGDENHIL, D. see OMER, E.A.
- WAHAB, J. see LYNCH, D.R.
- WALSH, J.R. see BELANGER, G.
- WATERER, D. see LYNCH, D.R.
- WATTIE, D. see BOITEAU, G.
- WATTIE, D. see MIKITZEL, L.
- WHITTINGTON, D.P. see SEDEGUI, M.
- WHITWORTH, J.L., A.R. MOSLEY, and G.L. REED. Monitoring current season potato leafroll virus movement with an immunosorbent direct tissue blotting assay, 1.
- WICKS, T.J., C.W. DAVOREN, and B.H. HALL. Fungicidal control of *Phytophthora erythroseptica*: The cause of pink rot on potato, 233.
- WEINGARTNER, D.P. see PEREZ, E.E.
- WILEY, E. see LU, W.
- WOODELL, L.K., G.E. KLEINKOPF, and N. OLSEN. Chlorine dioxide as a control of storage disease in potatoes, 423 (abst).
- WYMAN, J.A. The potential for biointensive IPM in potatoes, 423 (abst).
- XIANZHOU, N. see SINGH, R.P.
- YADA, R.Y. see COPP, L.J.
- YANG, C-P. see CULLEY, D.
- YENCHO, G.C., S.P. KOWALSKI, G.G. KENNEDY, and L.L. SANFORD. Segregation of leptine glycoalkaloids and resistance to Colorado potato beetle (*Leptinotarsa decemlineata* (Say)) in F<sub>2</sub> *Solanum tuberosum* (4x) x *S. chacoense* (4x) potato progenies, 167.
- YOON, C-S. see LIM, H-T.
- ZARZYCKA, H. see ZIMNOCH-GUZOWSKA, E.
- ZEBARTH, B.J., G. TAI, R. TARN, H. DE JONG, and P. MILBURN. Genotypic variation in nitrogen use efficiency characteristics of commercial potato cultivars, 423 (abst).
- ZENG, C. see COFFIN, R.
- ZHANG, R., B.J. CHRIST, and K.G. HAYNES. Early blight resistance in a F<sub>1</sub> diploid hybrid potato population of *Solanum phureja* X *S. stenotomum*, 424 (abst).
- ZIADI, N. see BELANGER, G.
- ZIMNOCH-GUZOWSKA, E., M.T. SIECZKA, H. JAKUCZUN, H. ZARZYCKA, and K.M. SWIEZYNSKI. Breeding for resistance to *Phytophthora infestans* in Poland, 424 (abst).
- ZIMNOCH-GUZOWSKA, E. see ROKKA, V-M.
- ZLESAK, D.C., and C.A. THILL. The occurrence of 2n pollen in late blight resistant wild *Solanum* accessions, 424 (abst).



